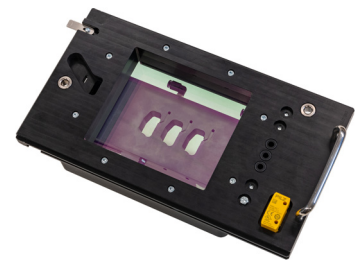


Laser Plastic Welding In-Line



- Optimal and closed loop welding process
- Quasi-simultaneous welding
- Short cycle times
- Easy exchange of clamping unit (SMED)
- Easy programming (TS1)
- Precision collapse measurement
- Sturdy C-Shape
- Integrated lift mechanism
- No consumables



Laser Plastic Welding In-Line

PCB Specification	
Enclosure height:	≤ 25 mm (other on request)
Lid height:	≤ 7 mm (other on request)
Weld rib	≥ 0,5 ≤ 1 mm (other on request)
Lid thickness on weld rib:	≥ 0,5 ≤ 1,5 mm
Process Specification	
Welding:	Quasi-simultaneous
Welding speed:	Up to 6 m/sec
Field of View:	180 x 180 mm (other on request)
Collapse measurement resolution:	1 μm (high stability)
Positioning accuracy:	± 0,05 mm
Positioning repeatability:	± 0,02 mm
Product cooling:	Optional
Press force:	250 N to 2kN programmable (other on request)
Laser wavelength:	980 nm
Laser power:	300 W
Laser spot size:	1,5 mm large focus depth (other on request)
Technical Specification	
Transport height:	950 ± 25 mm
Transport speed:	100 - 700 mm/sec
Protection screens:	ESD
Controller:	Beckhoff
Energy requirements:	3 x 400 V + N, 3 kVA
Compressed air:	6 bar, typ 50 NL/min, according to DIN ISO 8573 3.4.5
Color:	RAL 7035 ESD Safe
Dimension (L x D x H):	1000 x 2200 x 2000 mm
Weight:	ca 1100 kg
Interface:	TS1
Standards:	CE
Options	
Different conveyor systems (carrier, PCB, pallet)	
Pendant Tool	
Fume extractor and flow detection	
Laser Power measurement tool	
Press Force measurement tool	
Marking block tool with exchangeable marking plates	

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